

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Watkins, William Examiner #: 67779 Date: 3-27-03
 Art Unit: 1772 Phone Number 303-7427 Serial Number: 09/902,949
 Mail Box and Bldg/Room Location: AS 603 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Insulating Ceramic Composite Ceramic Multilayer Substrate
 Inventors (please provide full names): See Attached

Earliest Priority Filing Date: See Attached

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

See Claim 1: Fired Mixture of $MgAl_2O_4$ & Borosilicate Glass
3 crystal phases $\rightarrow MgAl_2O_4$ & $Mg_3B_2O_6$ & $Mg_2B_2O_5$
 See Claim 2: Above phases plus Mg_2SiO_4
 Process
 $Mg(OH)_2$
 Al_2O_3
 $MgAl_2O_4$
 MgO
 B_2O_3
 SiO_2
Glass
Breakdown
 Fired Product \rightarrow Up to Four Distinct Phases
 $MgAl_2O_4$
 $Mg_3B_2O_6$
 $Mg_2B_2O_5$
 Mg_2SiO_4
 Please search at least
 US, ~~Patent~~ Patent Patent Patent
 (not) has Al Si B Si & Co Gd Co Co
 (crystal) Base
 Do not know
 all synonyms
 or registry numbers
 $MgAl_2O_4$
 = Spinel
 Used For Printed Circuit Board Substrates

STAFF USE ONLY

Searcher: EL
 Searcher Phone #: _____
 Searcher Location: _____
 Date Searcher Picked Up: _____
 Date Completed: 3-27-03
 Searcher Prep & Review Time: 15
 Clerical Prep Time: _____
 Online Time: 30

Type of Search

NA Sequence (#) _____
 AA Sequence (#) _____
 Structure (#) (H)
 Bibliographic (and)
 Litigation _____
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Vendors and cost where applicable

STN \$ 280.44
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 Other (specify) _____